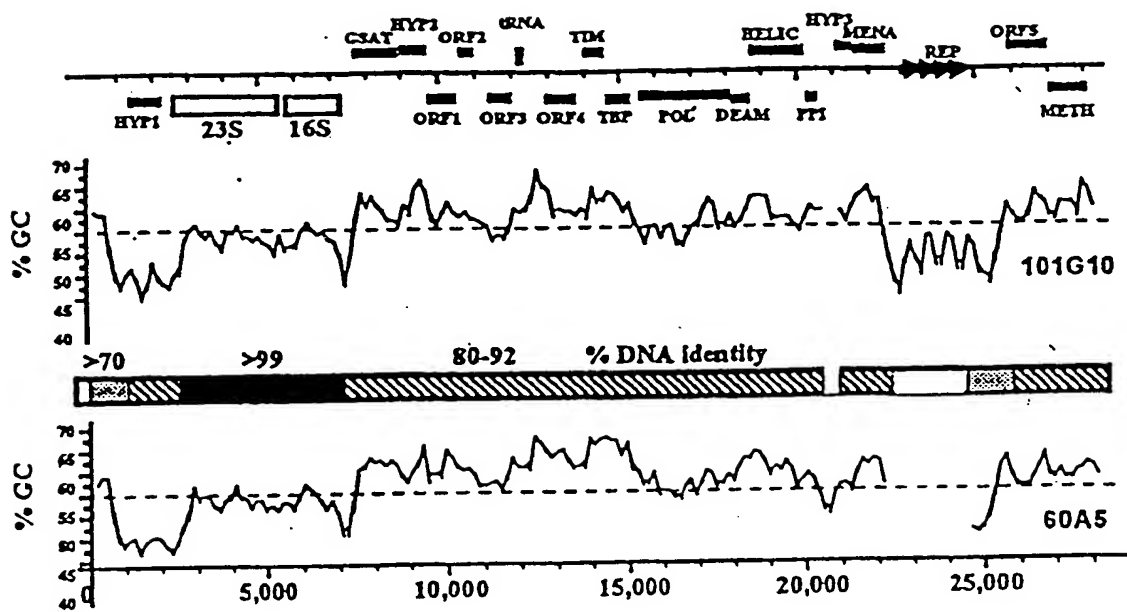


FIGURE 1



10027806-122101

Figure 2

Seq. No.	Gene	Strain	TATA Box	Coding Start	TATA to Start (bp)
81	Hypoth 03	A	AAGCTAGACT TTTAAT TGGG ATCCGGCGGG GCGGCGCATG	-----	25
82		B	AAGCTAAACT TTTAAT TGGG ATCCGGCGAG CCGGCGCGTG	-----	
83	Hypoth 02	A	GGAAACTTTG ATTATA CGGG CGTGCTGCCC CGGGGCCCAT G-----	-----	26
84		B	GGAAACTTTG ATTATA CGGG CGTACATTCC CGGGGCCCAT G-----	-----	
85	ORF 02	A	AAGGCAAGGT AATAAT AGCC TGCCGTCTGT AACGGCCGTA TG-----	-----	27
86		B	ACGGCAAGGT AATAAT AGCC TGCCGTCCGT ACCTGCCGTA TG-----	-----	
87	ORF 03	A	CATGGAACTA GATATT AACC GGTTCGCGG ATCCCATGCA TG-----	-----	27
88		B	CATGGAACTA GATAAT AACC GGTCCCGCGG GTACAATGCA TG-----	-----	
89	PPI	A	ATACCGAGAA GTTATA GCAG GGTATGGAAT GTGCGCGCGC ATG-----	-----	28
90		B	AGCACGACAA GTTATA GCAG GGTACAAAGG AGCAGCGCAC ATG-----	-----	
91	GSAT	A	ATCCGCCCTG ATTAATA TTAT GGGGGGAGCG GCCTGCTGCC GTG-----	-----	28
92		B	ATCCGGCCTC ATTAATA TTAC GGGGGGTACA ACCTGCTGCC GTG-----	-----	
93	ORF 05	A	CCTTCATACA CATAAA TCCC GCTTGATGT GCGGCTGCGC ATG-----	-----	28
94		B	ACTTCATACA CATAAA TCCC GCCTGAACGG TCGTCCGCGC ATG-----	-----	
95	deaminase	A	.GGCATATAC CATAAT ATGC CGGGCGGTGG CACCATGGCC GTTG-----	-----	29
96		B	CCGCATATAC CATAAT ATGC CGGGCGGGGG CAGGCTGCCC .GTG-----	-----	
97	RNA helic	A	TGTACGAAAC CATAAA ACAAC CAGGCCGCGT CAGGGCCGCG CGTG-----	-----	29
98		B	GGGTAGAAAC CATAAA ACAAC CAGGCCGCGG CAGGGCG.CG CGTG-----	-----	
99	ORF 06	A	.ACACGCAG TATAAA CGGG GGCCCGGGCG GCGCGTATCA CATG-----	-----	29
100		B	ATACACGTGG TATAAA CAGA GG.CCGGACG GCGCGGACCA CATG-----	-----	
101	tRNA-tyr	A	GCGATAGTTA TTTAAA ACTA GGATGCCGAT CACGGATCGT CCCA-----	-----	29
102		B	GCGATAGTTA TTTAAA ACTA GGATGCCGGG CACCCGTCGT CCCA-----	-----	
103	TBP	A	CCGGGCCCCG GTTAAA ATAG CG.CACGGGC GGATCCTGAC CAATG-----	-----	30
104		B	CCGGGCCCCG GTTAAA ATAG AGTGCGGCCG GGCACCGGAT CAATG-----	-----	
105	TIM	A	GCGTCGATAG AATAAA TACG CGCAGGGGGC CCCGTGGCGC GATCGCCCGT G-----	-----	36
106		B	GCGTCGATAG AATAAA TACG CGC.GGGGCC GCGGTGC... GATCGCCCGT G-----	-----	
107	Hypoth 01	A	ATTTCAACTA CATAAA TGCC TAGTTACGCA GAAATAGCAA ACGACGTACT TCGACTAATG		45
108		B	ACTTCAACTA CATAAA TGCC TAGCTACGCA GAAATATCAA ACAAGTACT TCGACTAATG		
109	ORF 01	A	ACGGCAGGCT ATTATT ACCT TGCCTTGCGT TGTA //.G CGGGGTGCGG CAGGGGATG		52
110		B	ACGGCAGGCT ATTATT ACCT TGCCGTGTG. TACA //.G AGGGGGCCTG CCGGGAGTG		
111	Methylase	A	CTACAACGAT TTTAAG TCGG CGCCGGGGCA GCCG.//.G ATGTGGGGCA GGCAACATG		104
112		B	CTACAAAGAT TTTAAG ACGG CGCGGGTGCC GCGG.//.T GGCACGGGGG CCTATCTTG		
113	16S RNA	A	TCGGCGATGG TTTATA TGCC CATGGACGGG CCGATCCGAT CGTACGTGAC GC.//.AAT		220
114		B	CCGGCGATGG TTTATA TGCC CATGGACAAG GCGATCCGAT CGTACGTGAC GC.//.AAT		

Archaeal promoter consensus YTTAWA

FIG. 3

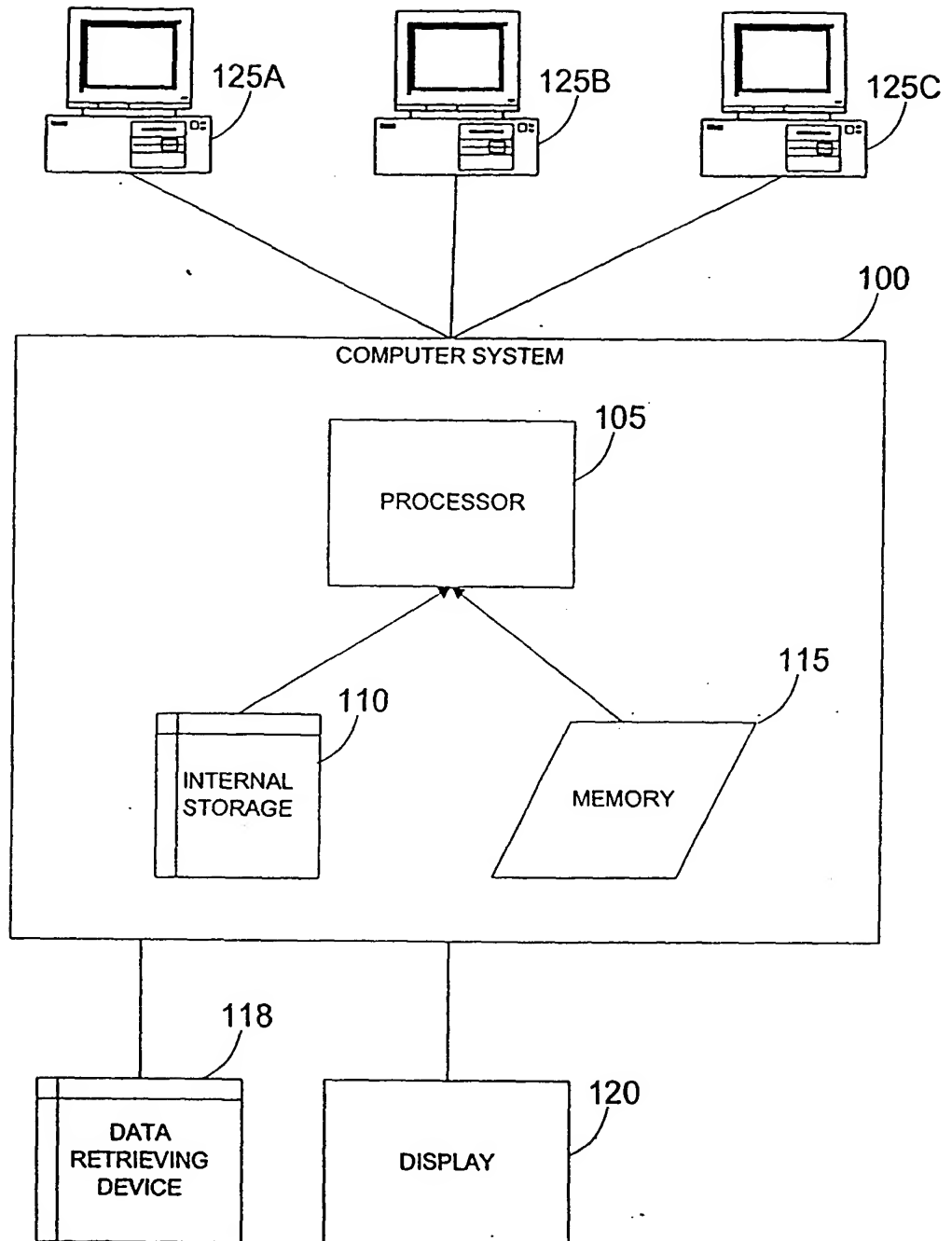


FIGURE 3

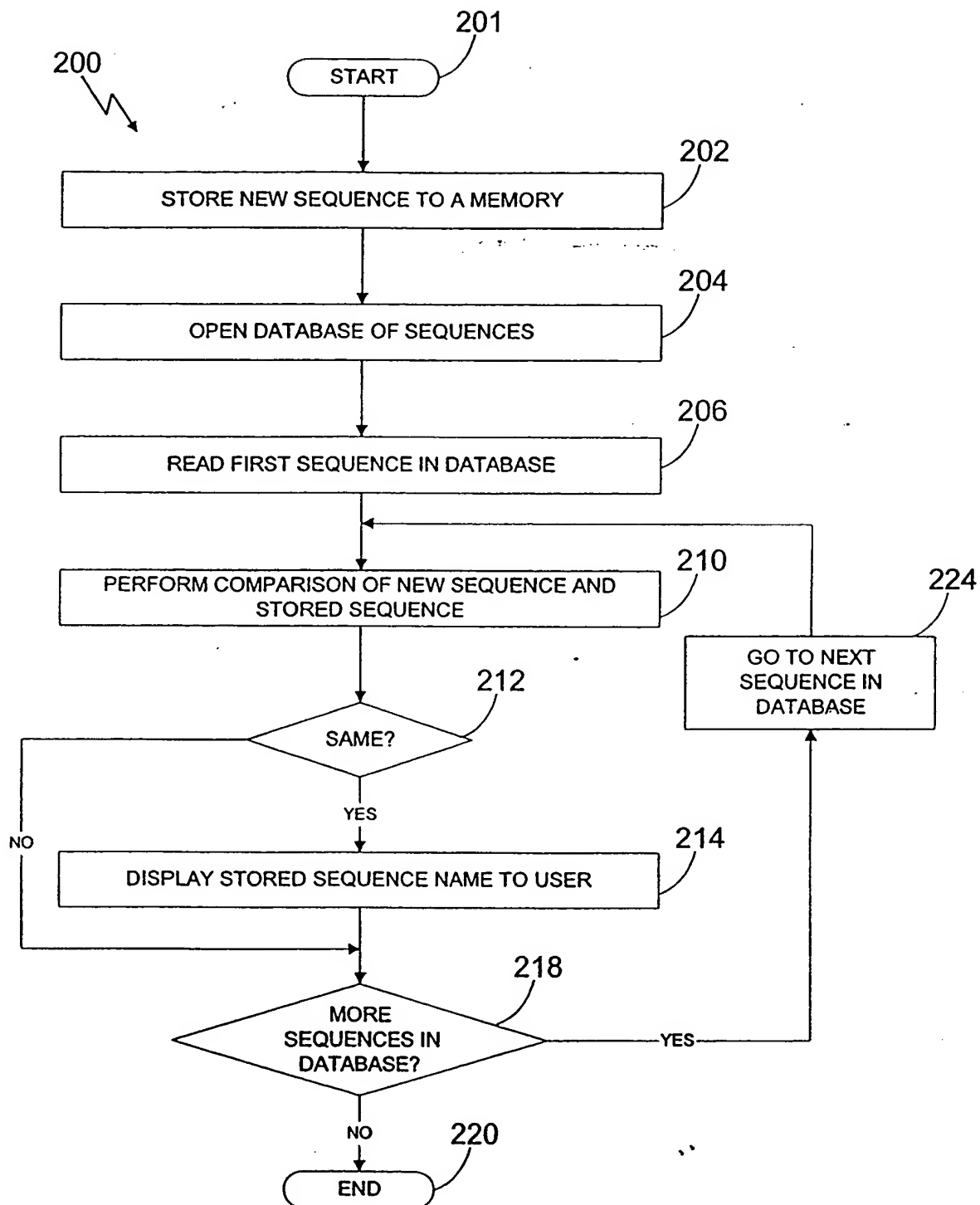


FIGURE 4

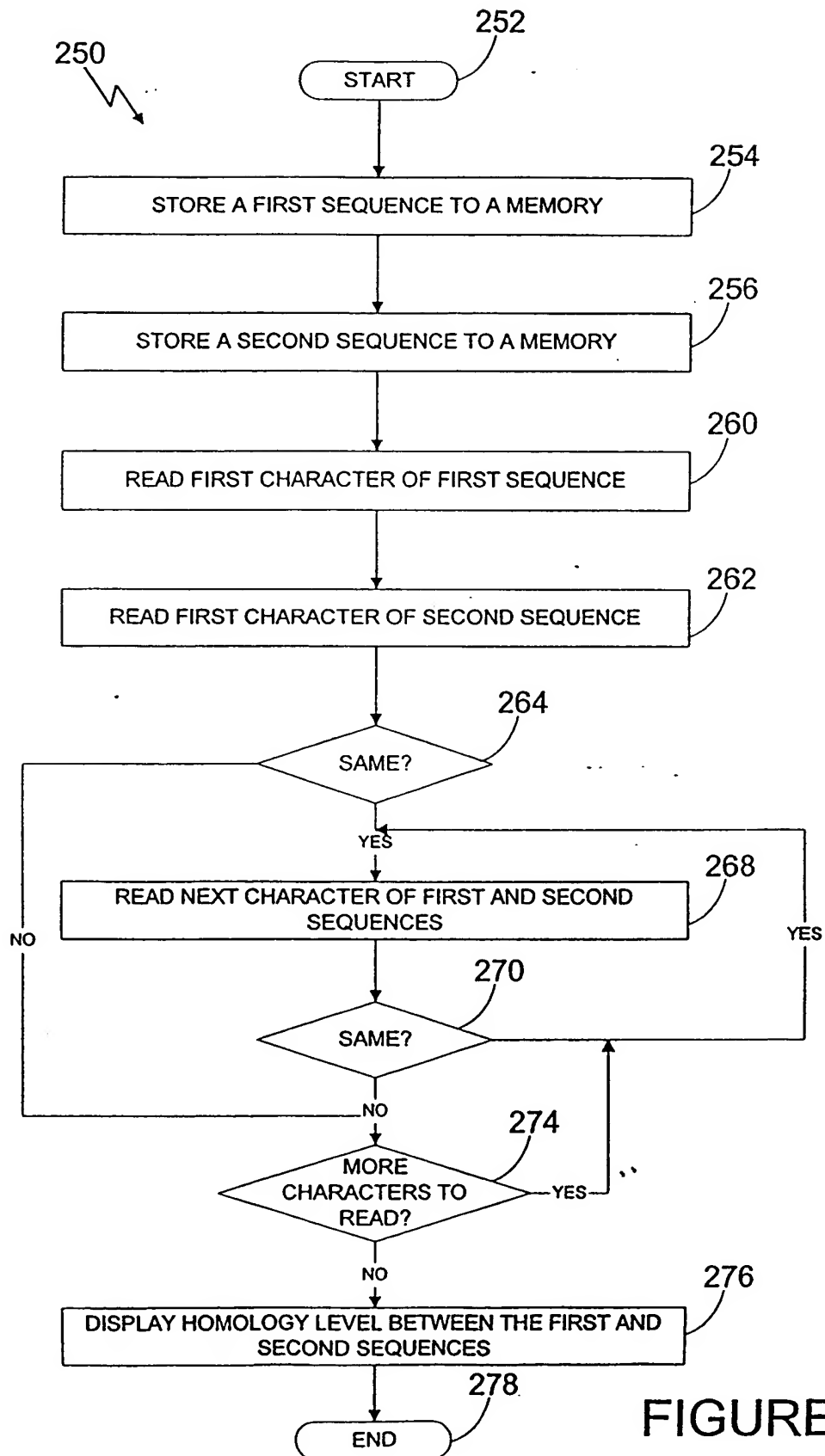


FIGURE 5

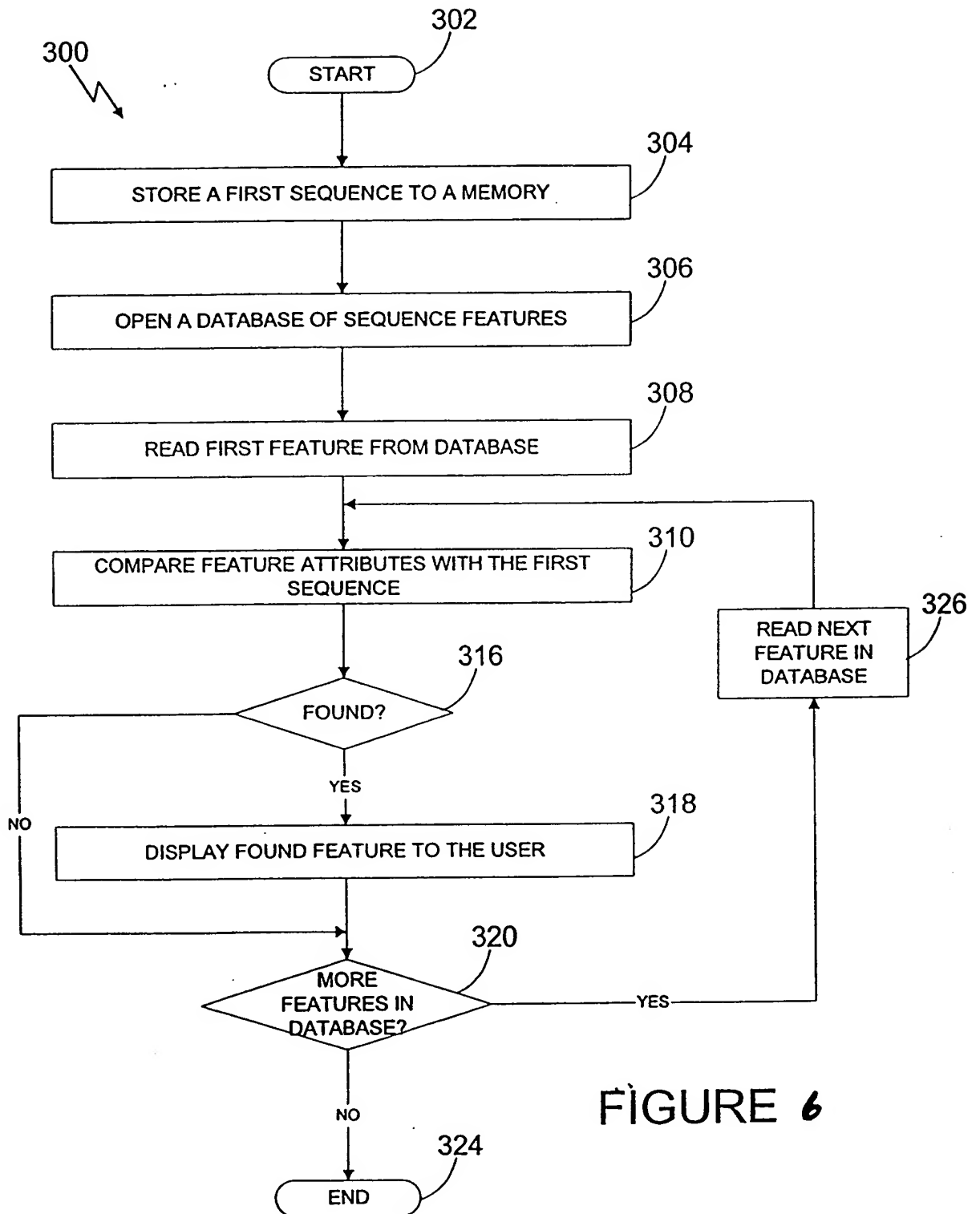


FIGURE 6